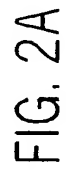


FIG. 1



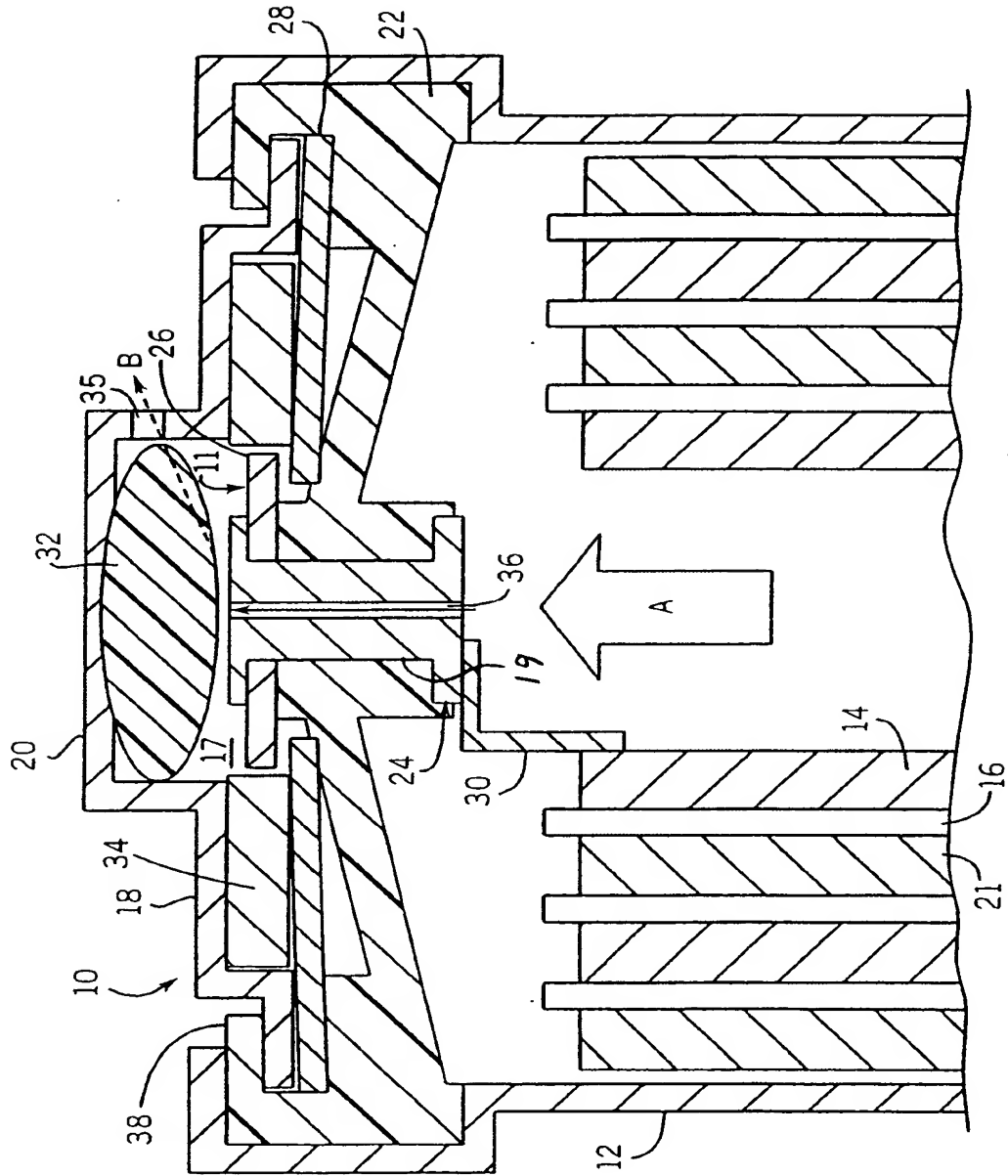


FIG. 2B

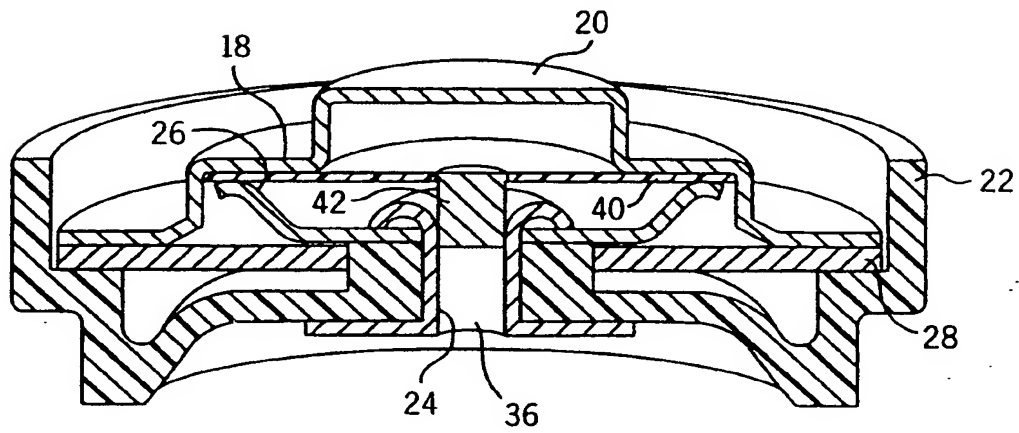


FIG. 3

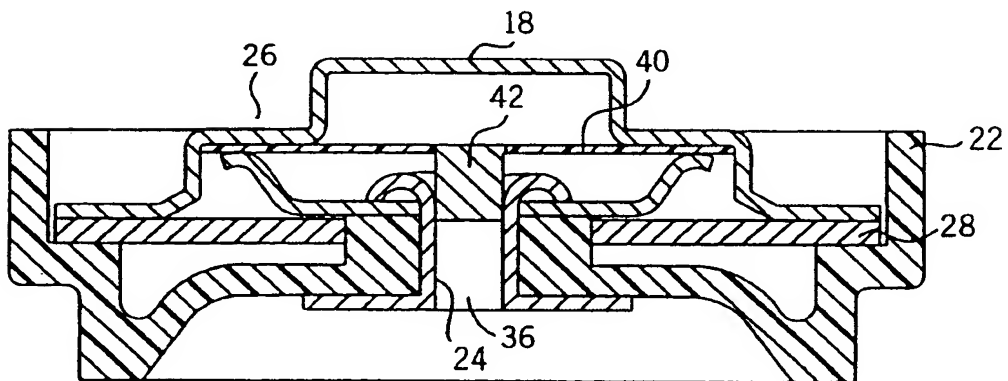
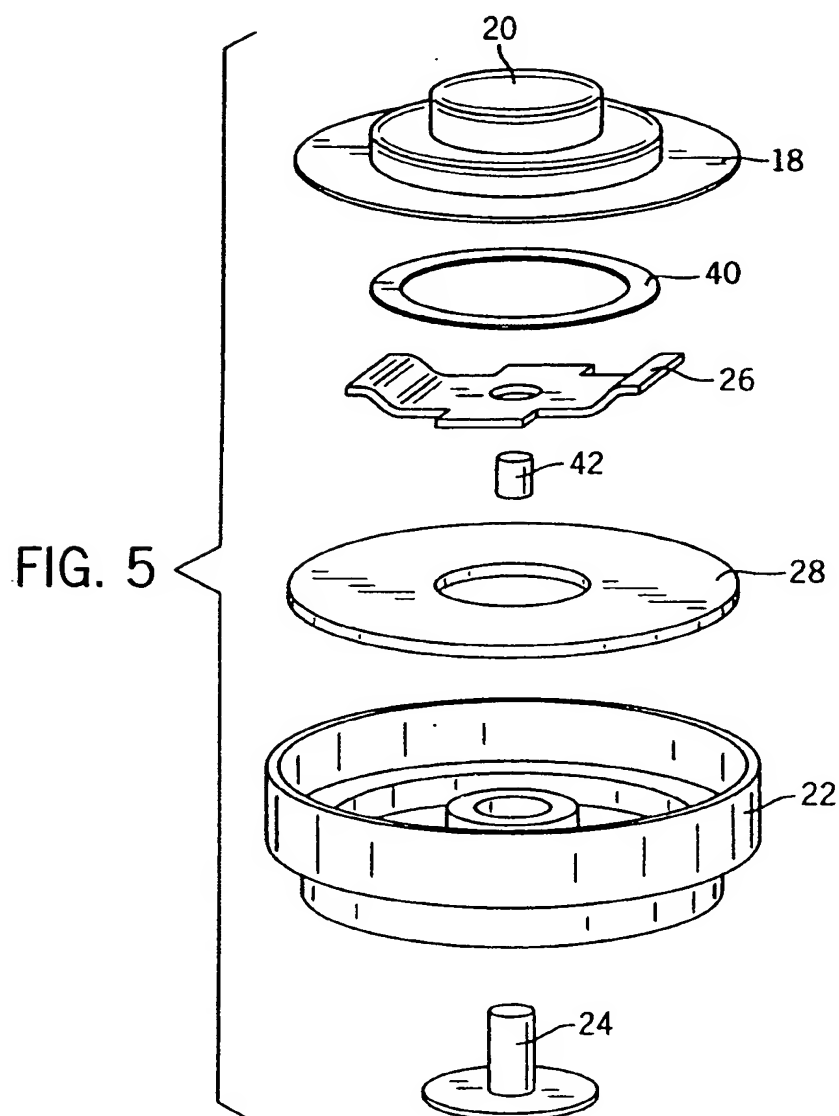
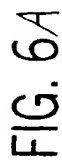
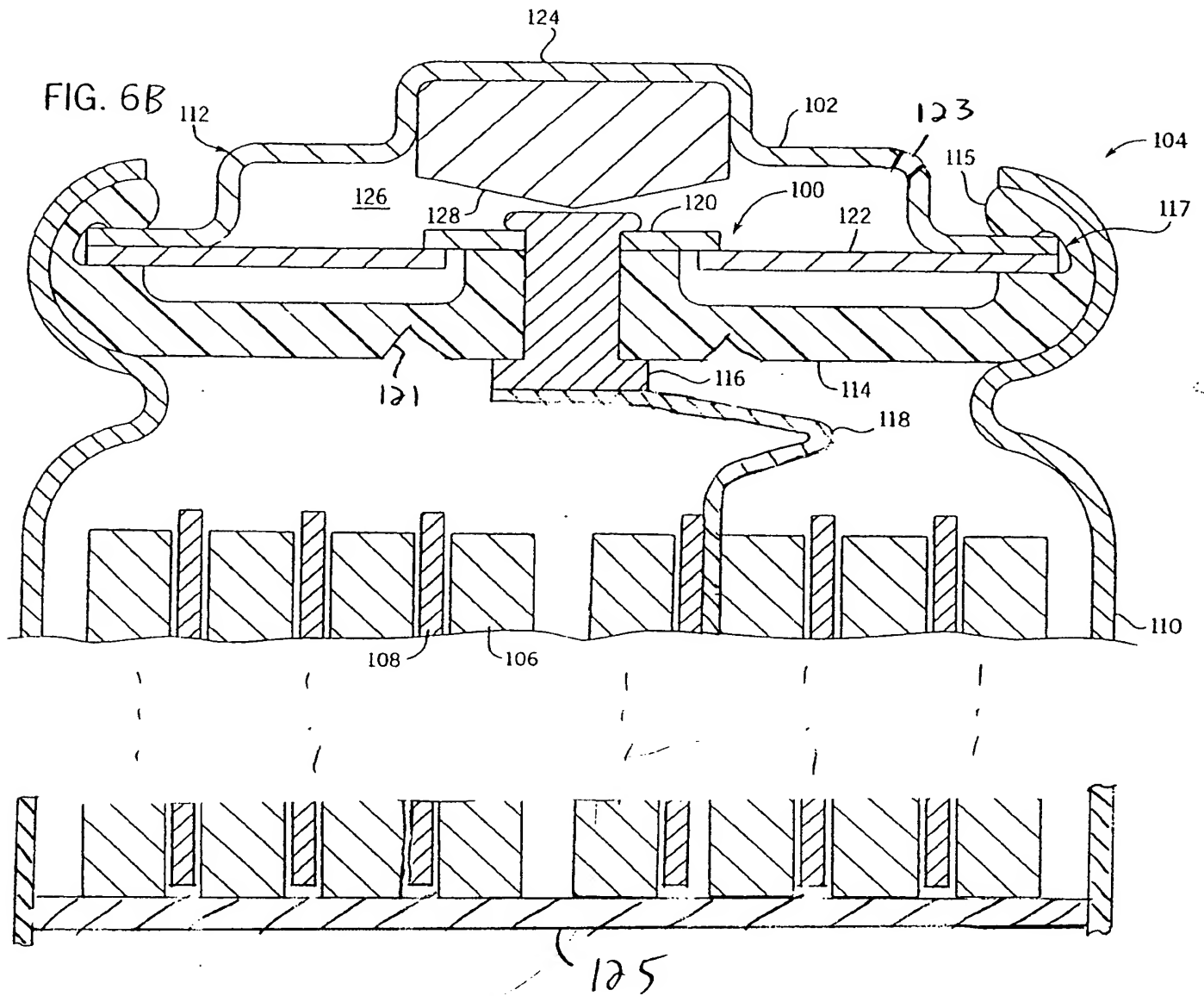


FIG. 4







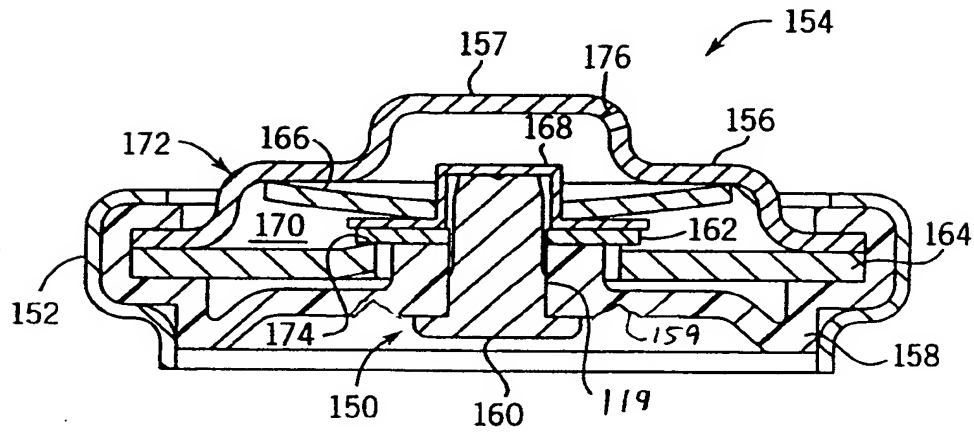


FIG. 7

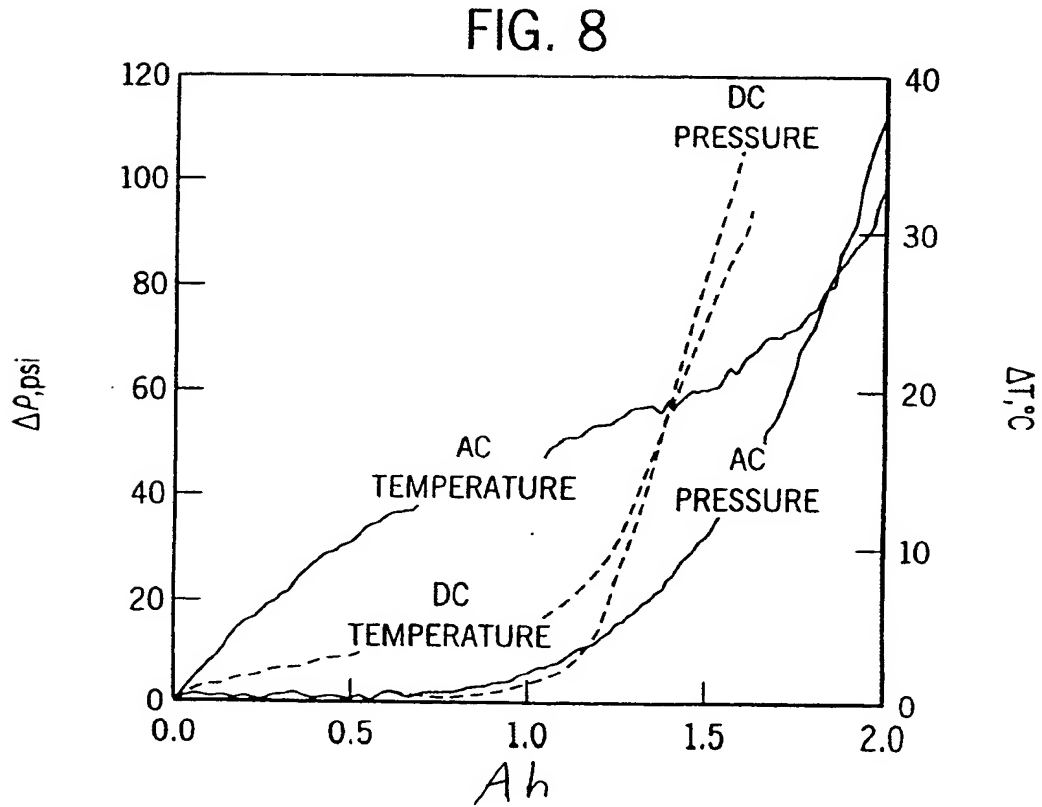


FIG. 9

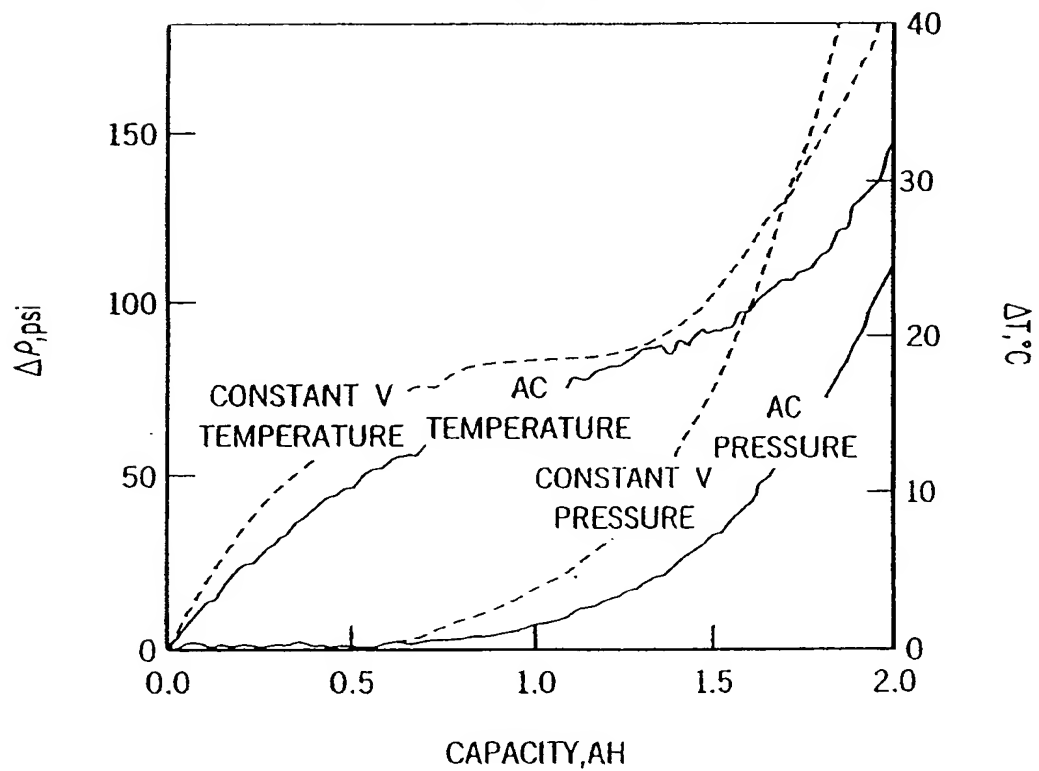
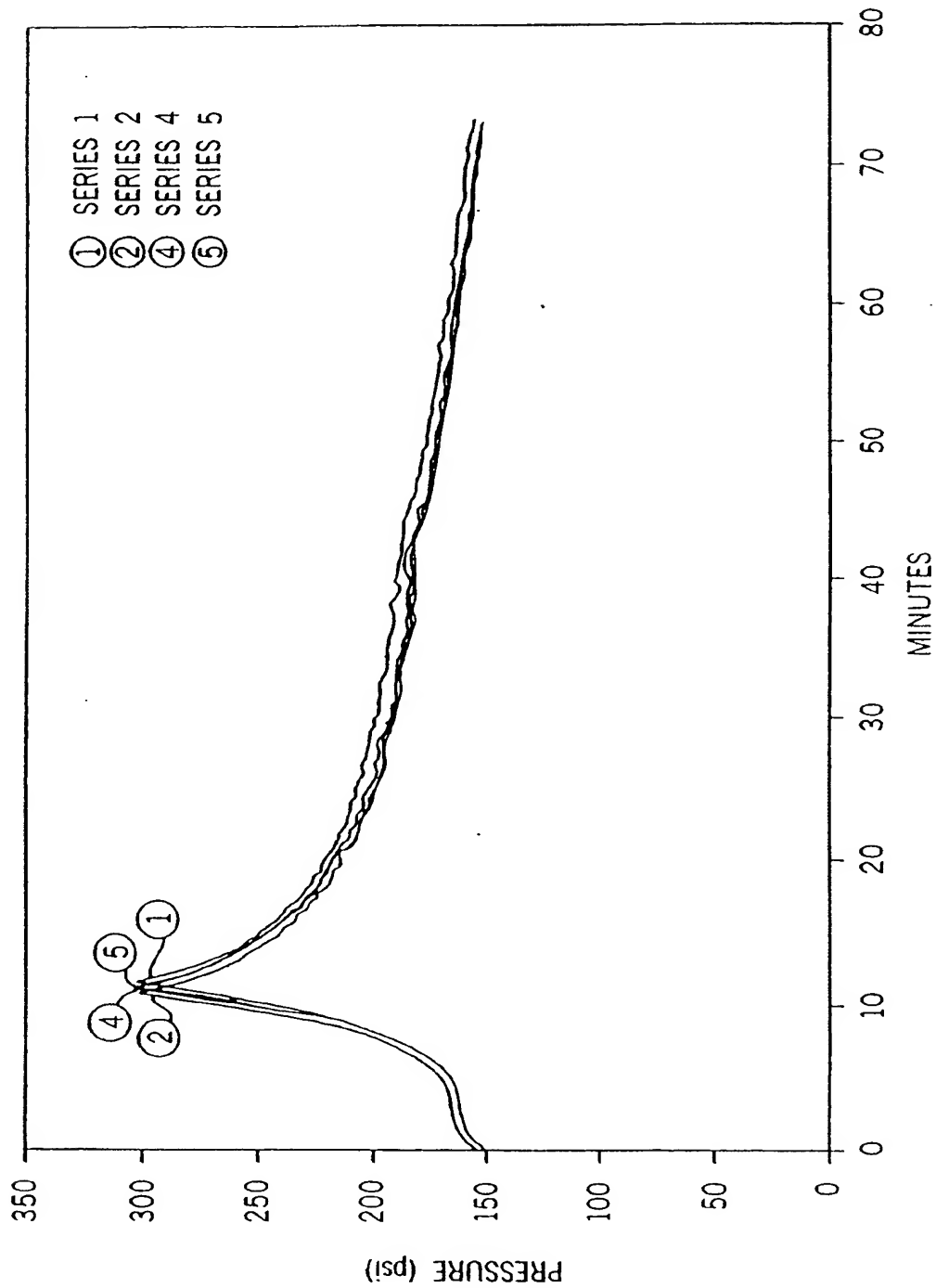


FIG. 10



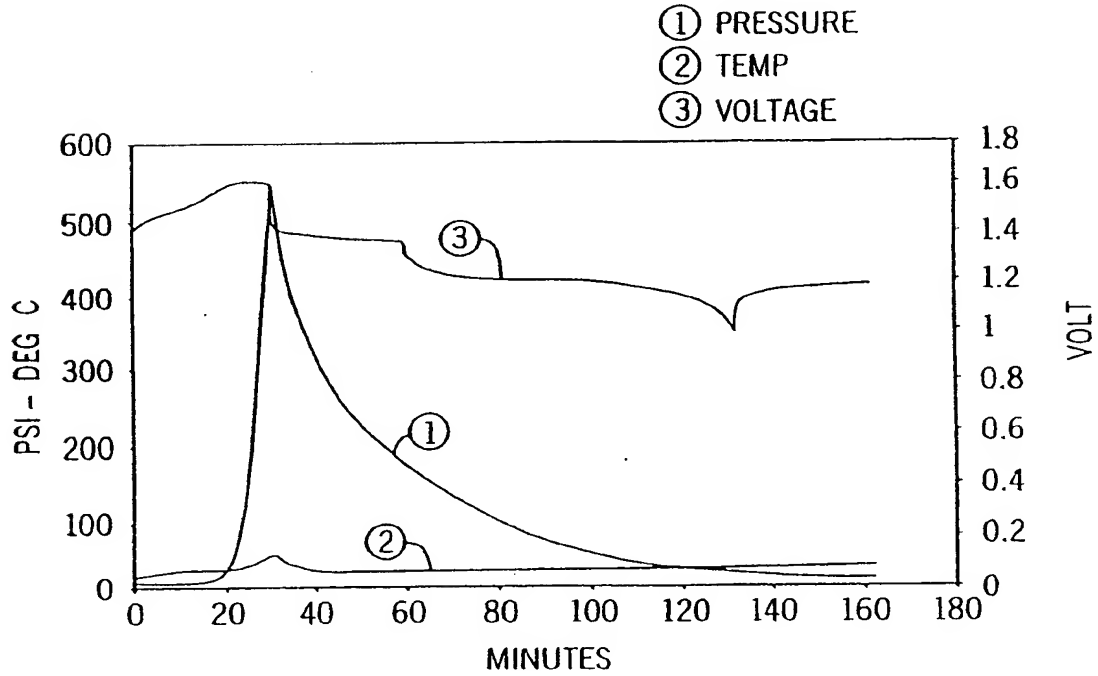


FIG. 11

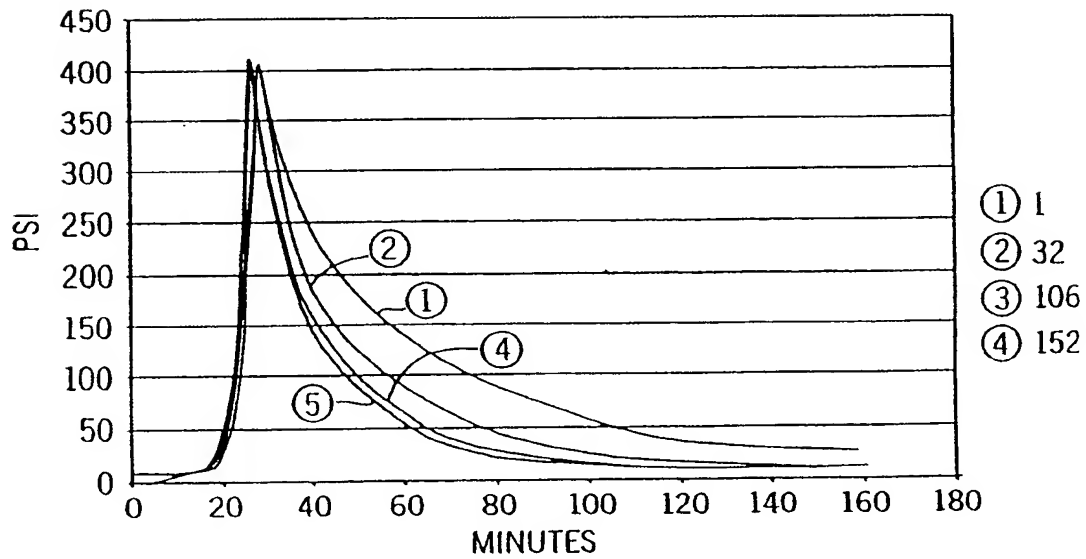


FIG. 12

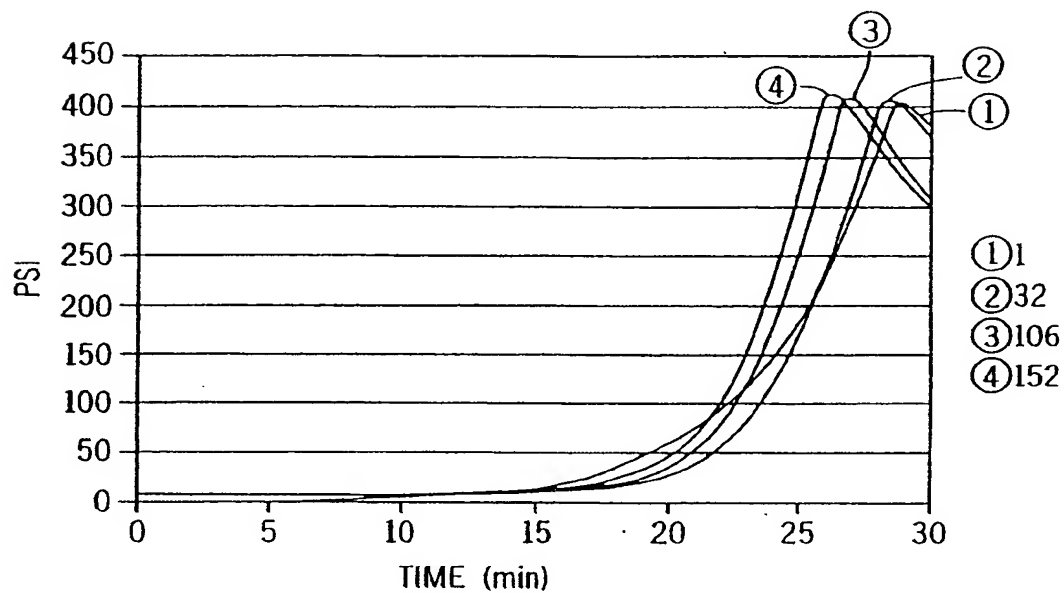


FIG. 13

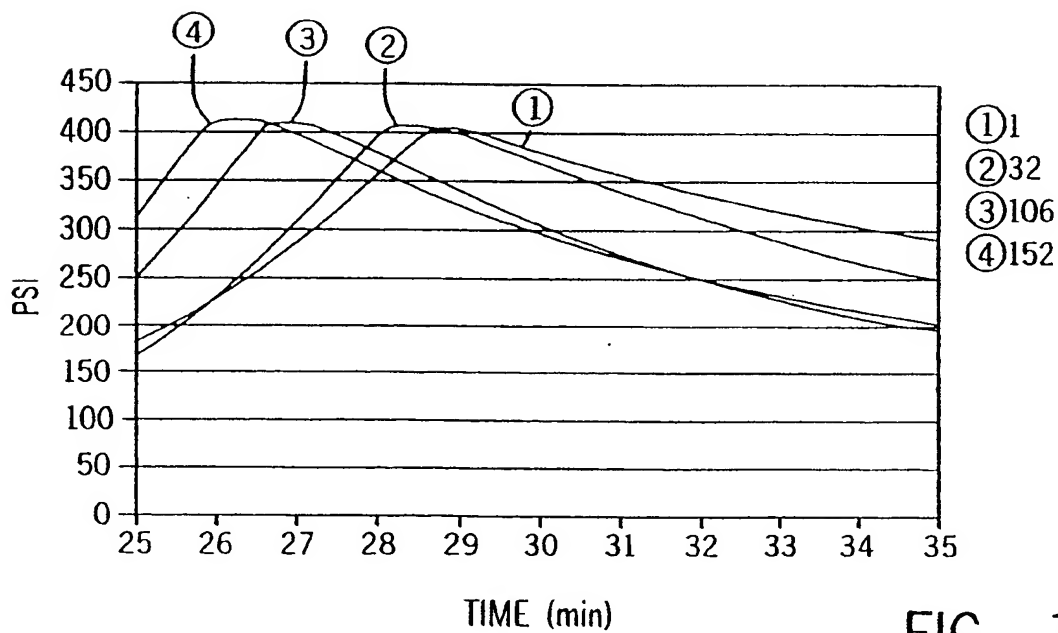


FIG. 14

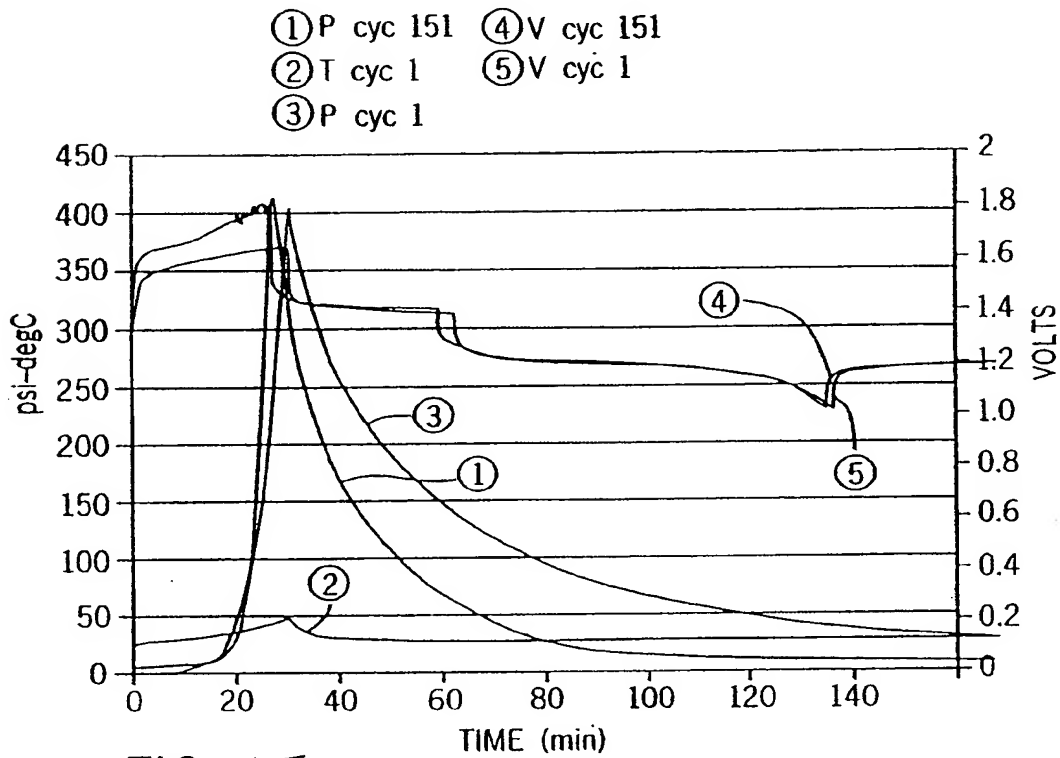


FIG. 15

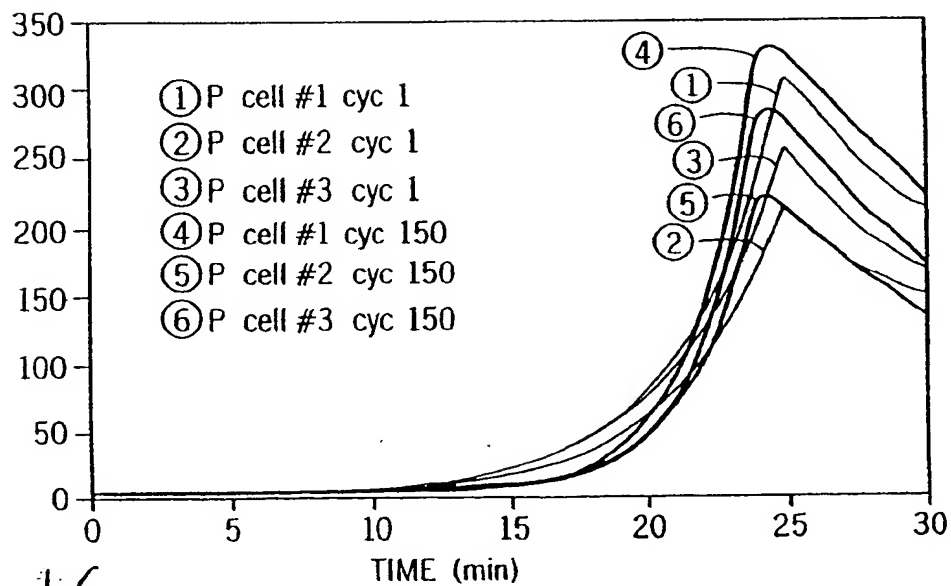
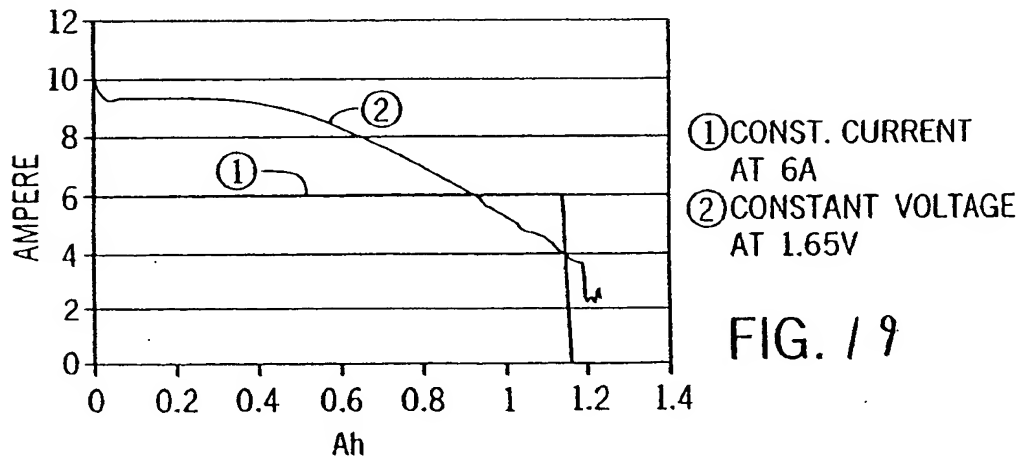
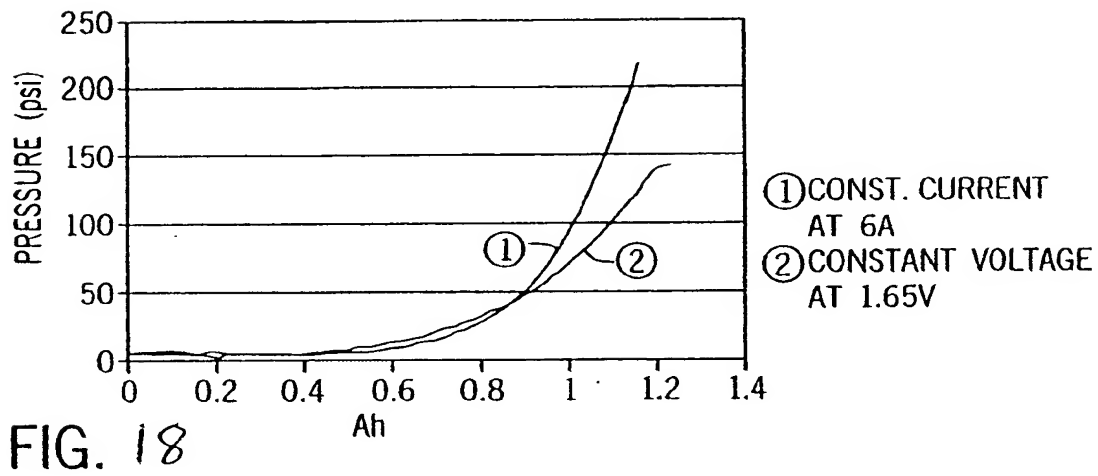
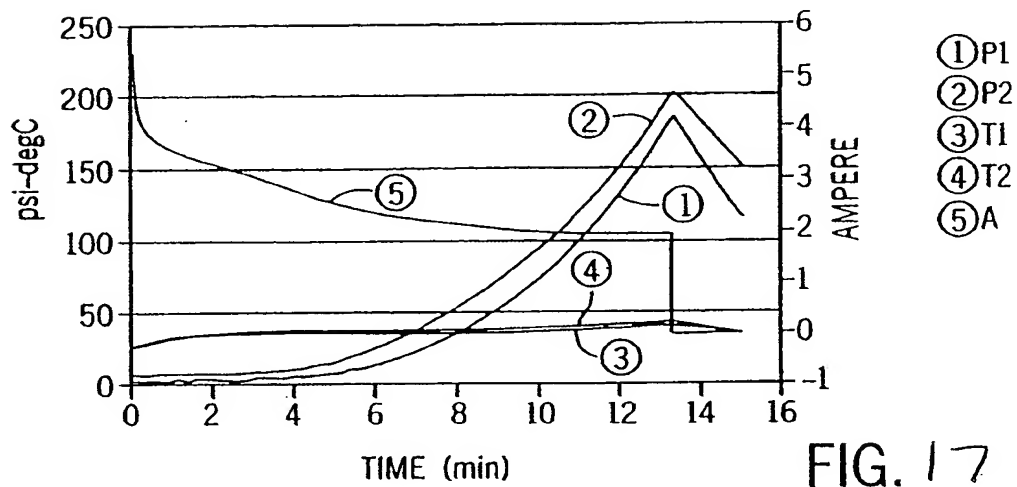


FIG. 16



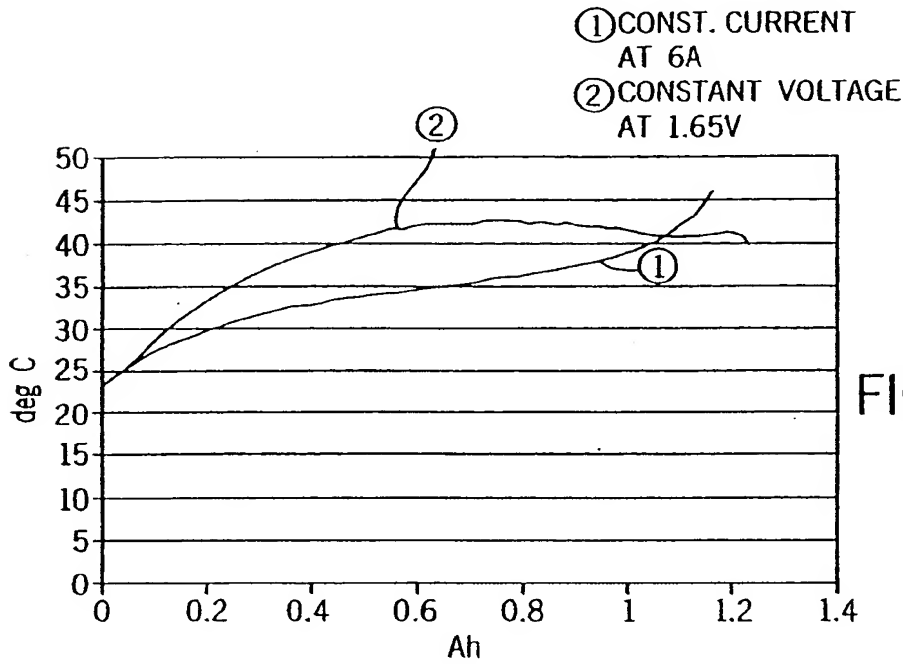


FIG. 20

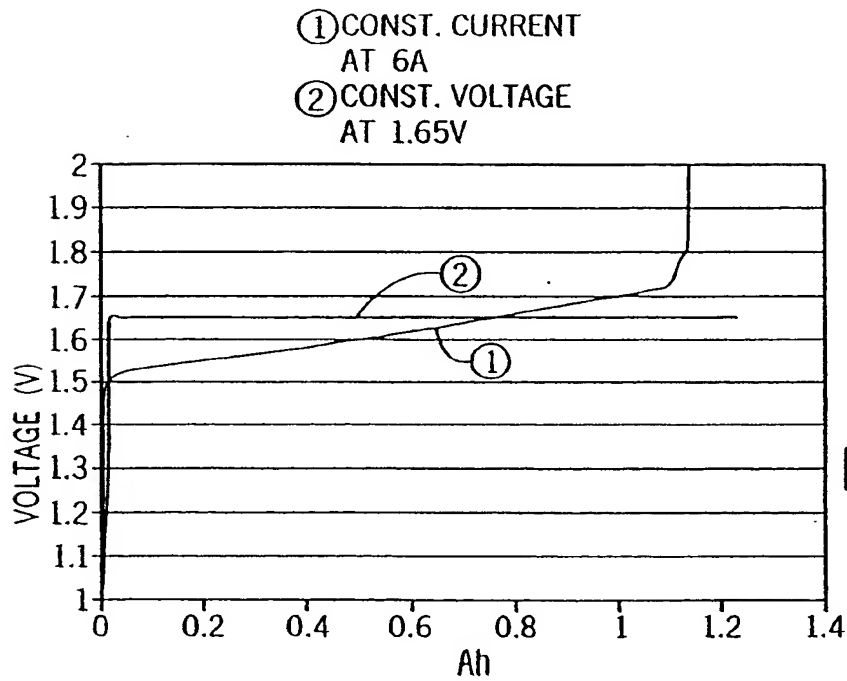


FIG. 21

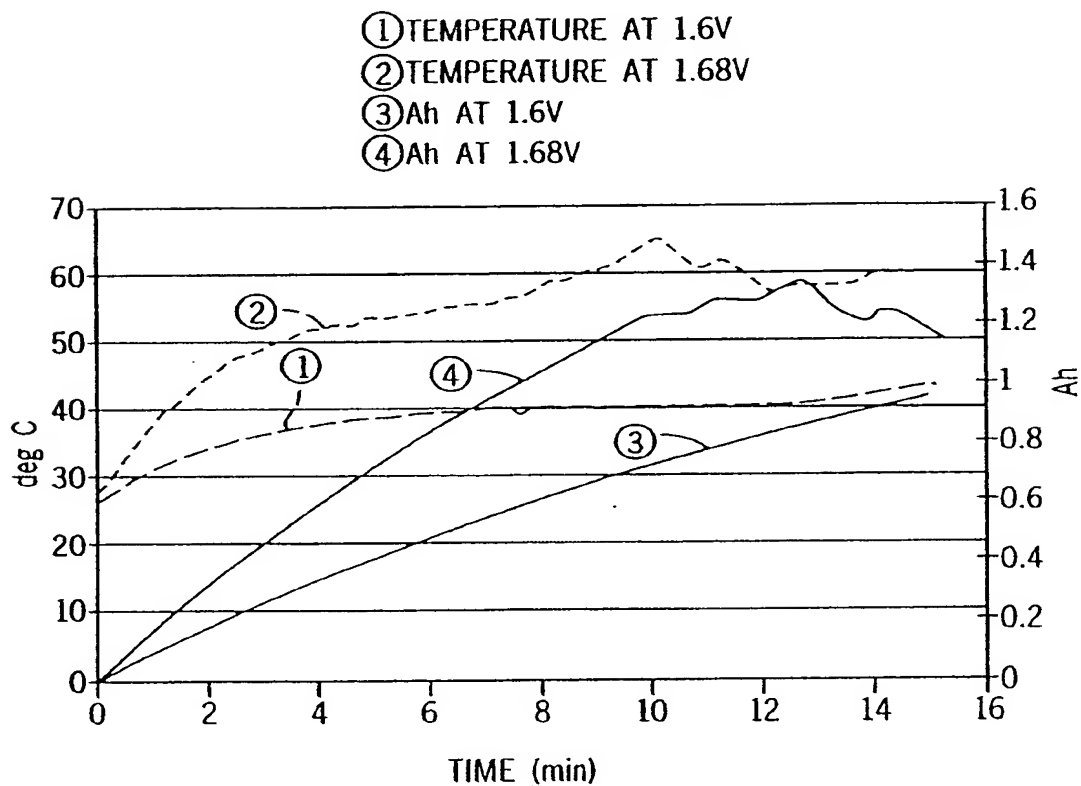


FIG. 22

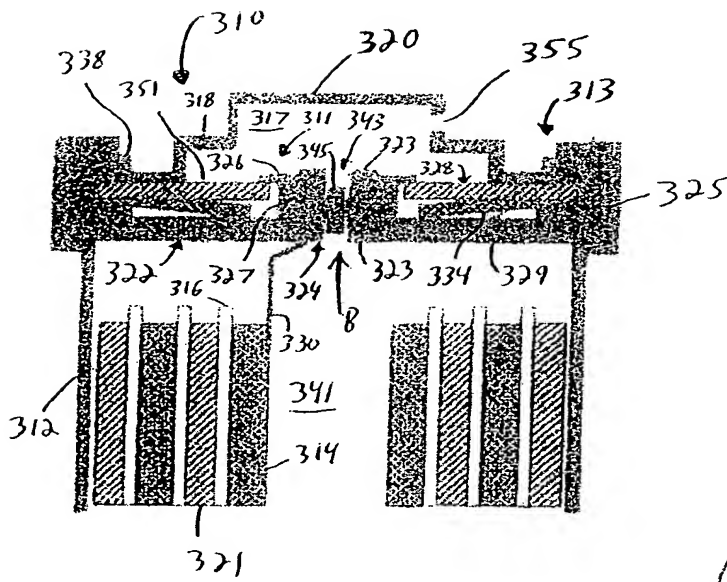


Fig. 23

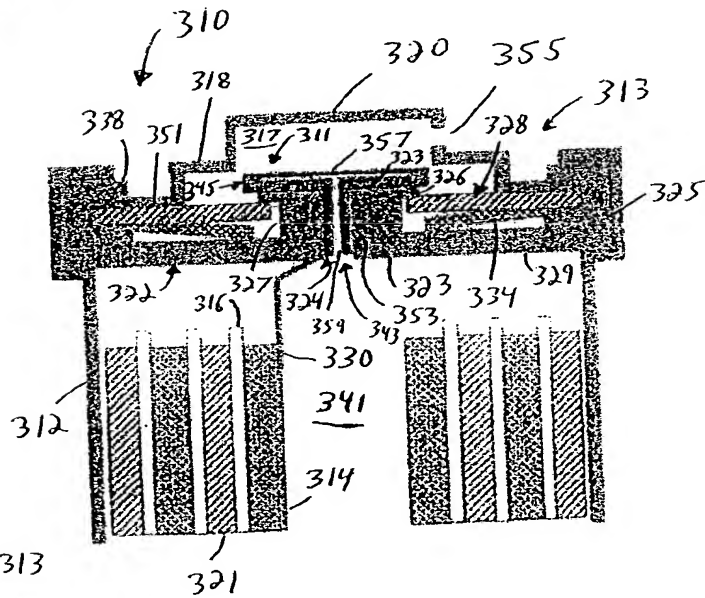


Fig. 24

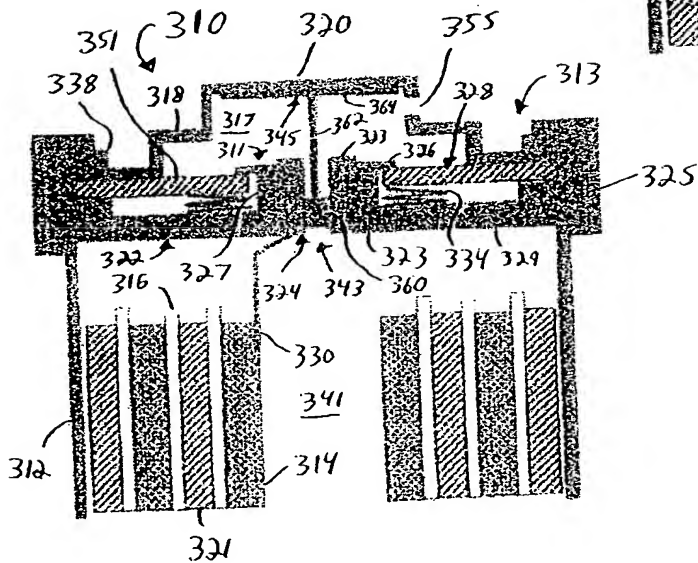


Fig. 25

Fig 26A

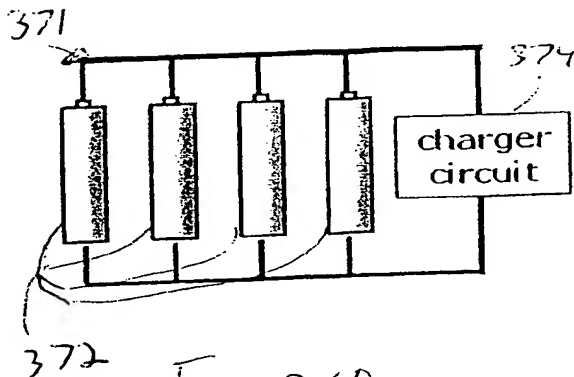
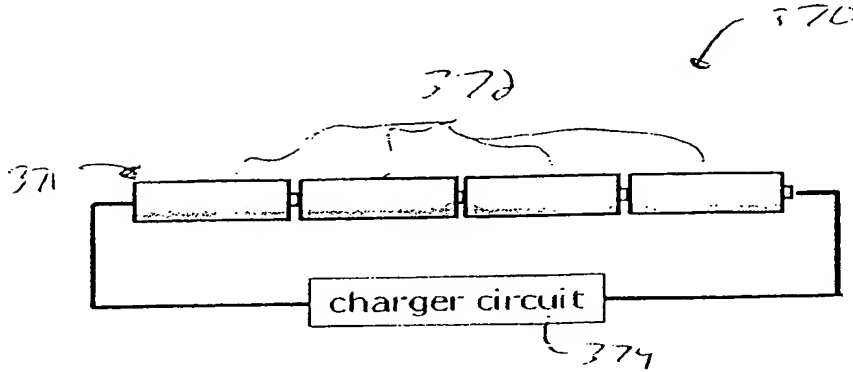


Fig 26B

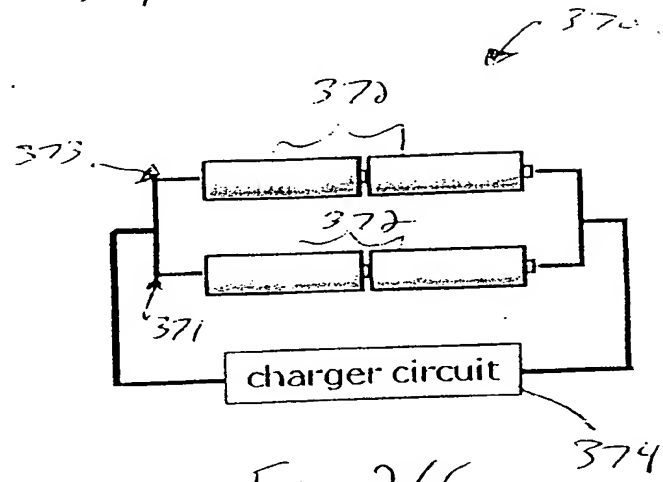


Fig. 26C

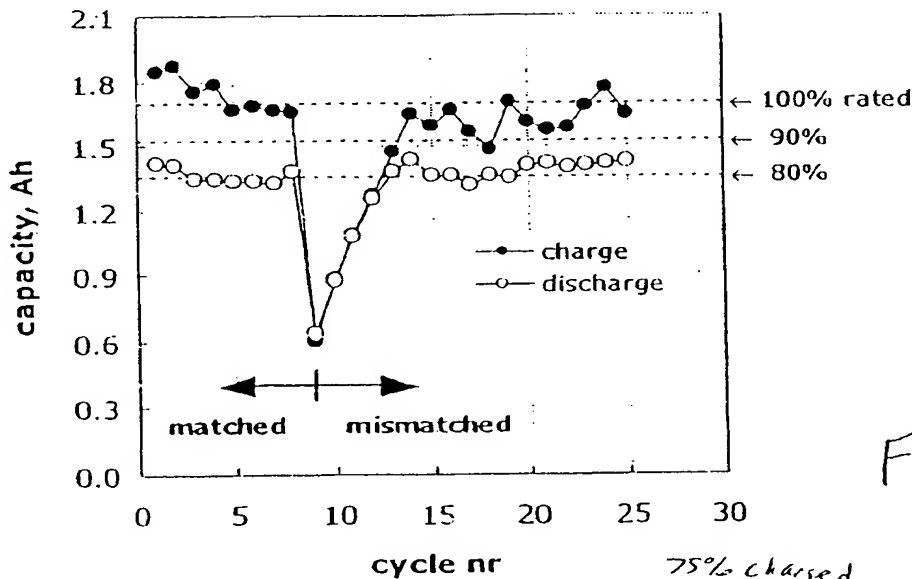


Fig. 27

0% charged 0% charged

matched

0% charged 75% charged

mismatched

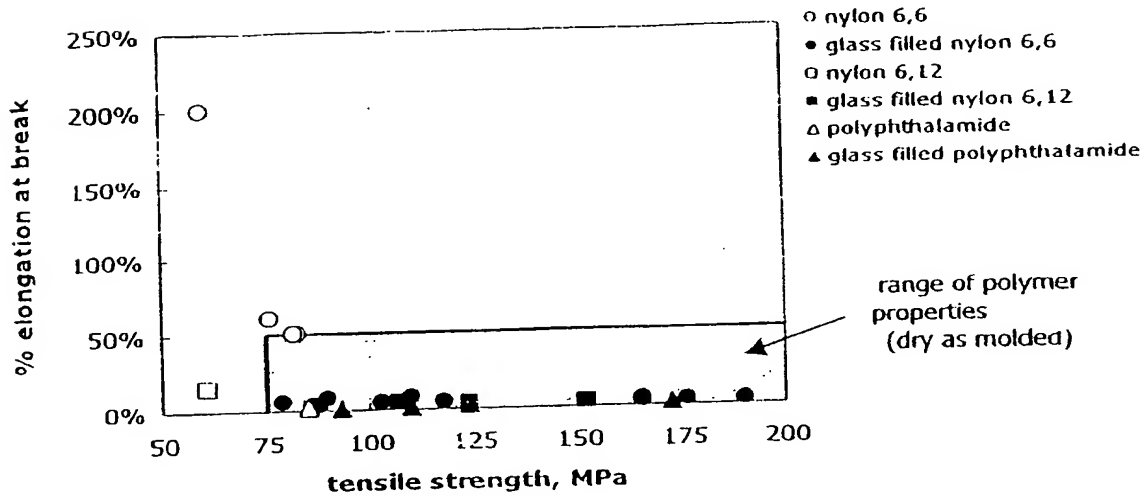


Fig 28A

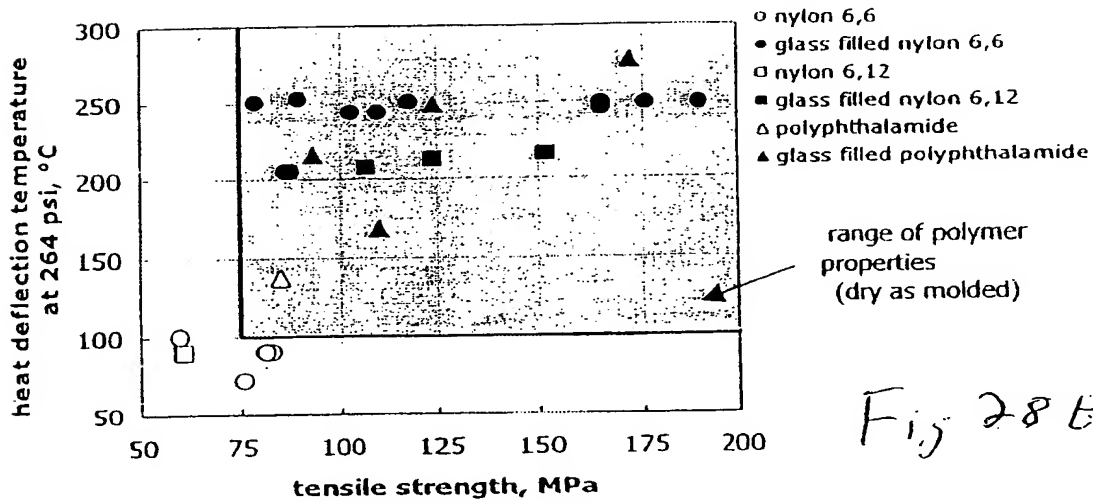
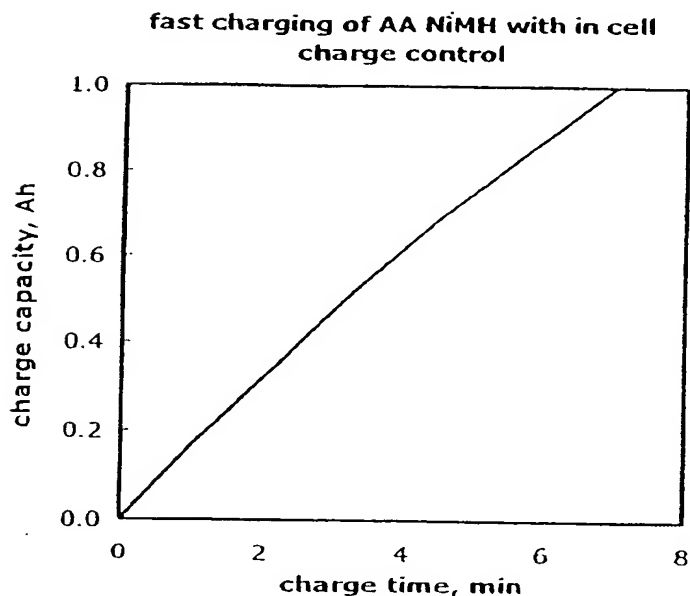


Fig 28B

Fig. 29



type	vol, cm ³	C, F	E, V	discharge		Ah	Wh	Wh/L	R(m ²)
				t, min					
NiMH AA	7.52		1.4	78		1.300	1.56	207	35
supercap	6.77	0.56	3.5	0.0231		3.9e-4	8.61e-4	0.127	25
"	8.78	0.40	5.5	0.0298		5.0e-4	1.60e-3	0.183	35
"	7.04	4.7	2.5	0.116		1.9e-3	3.35e-3	0.475	25
"	7.04	22	2.5	0.535		8.9e-3	1.54e-2	2.19	40
"	8.91	33	2.5	0.809		1.3e-2	2.34e-2	2.62	30
"	8.91	10	2.5	0.233		3.9e-3	6.61e-3	0.742	100
"	8.91	10	2.5	0.243		4.1e-3	7.02e-3	0.788	40

Fig 30

Fig. 31A

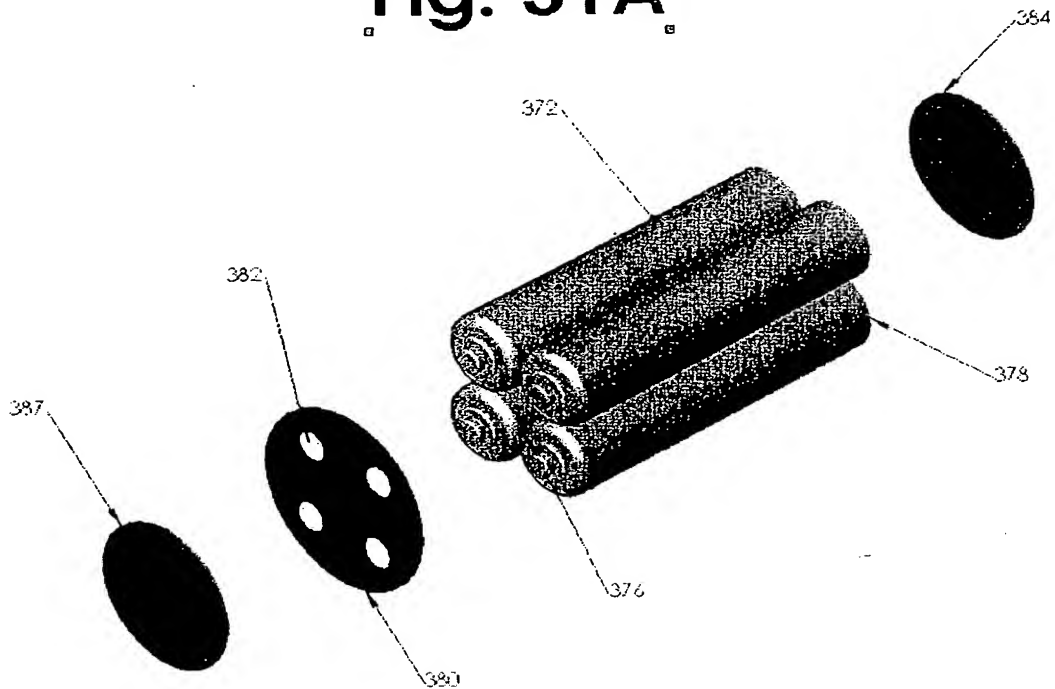


Fig. 31B

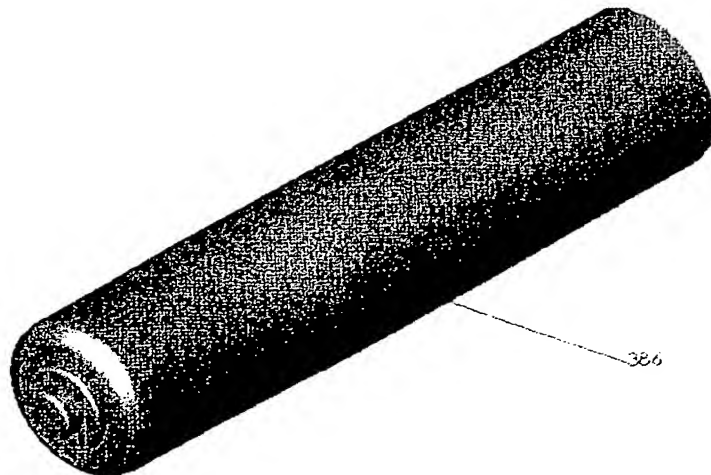


Fig. 32A

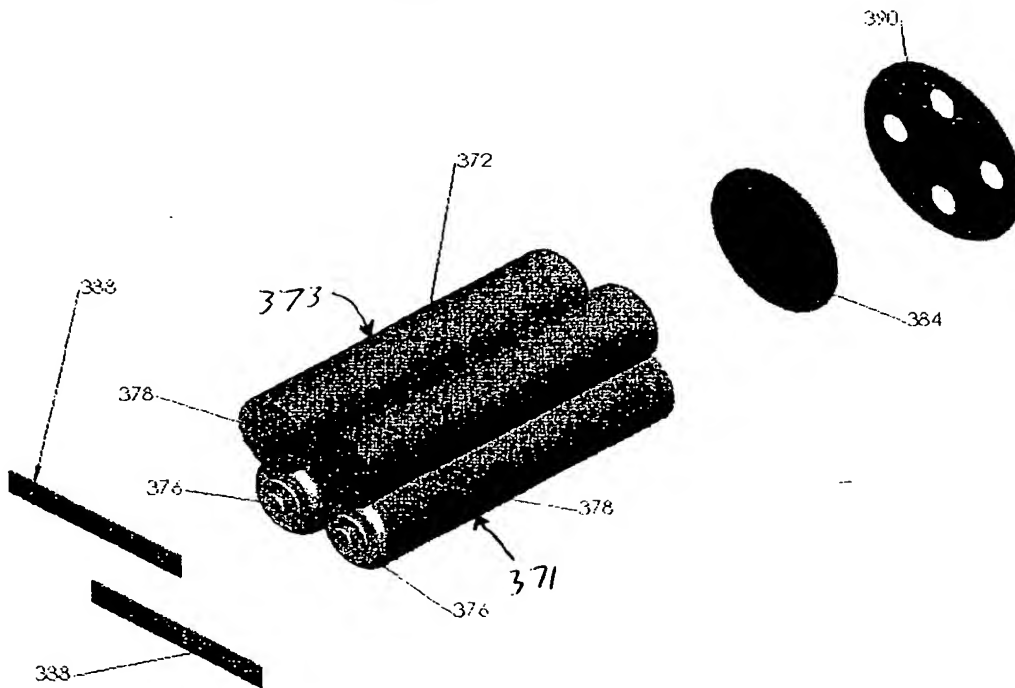
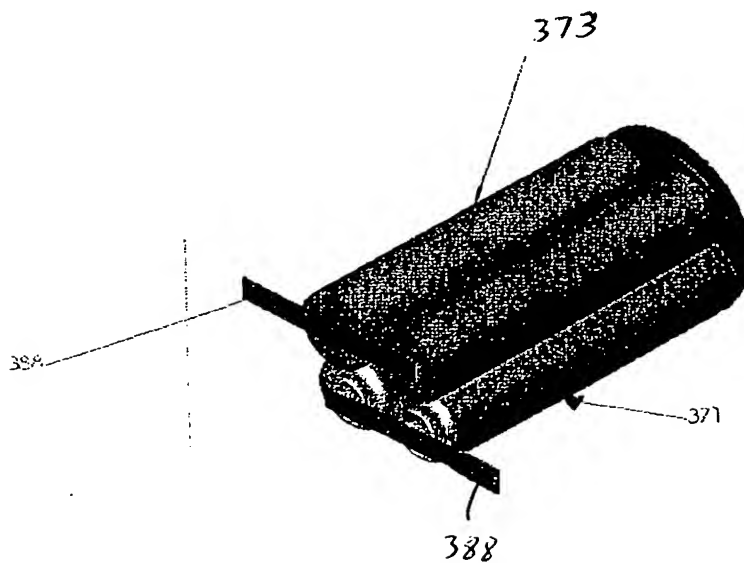


Fig. 32B



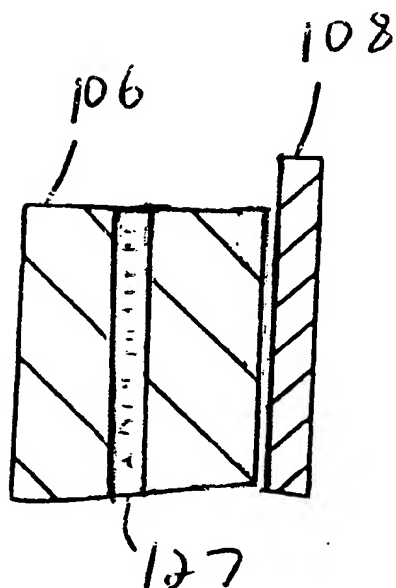


Fig. 33A

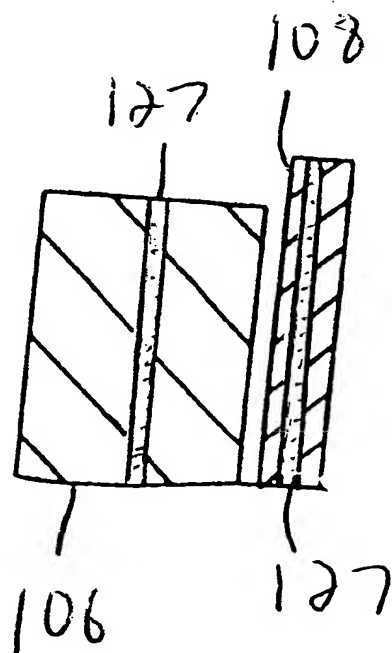


Fig. 33B

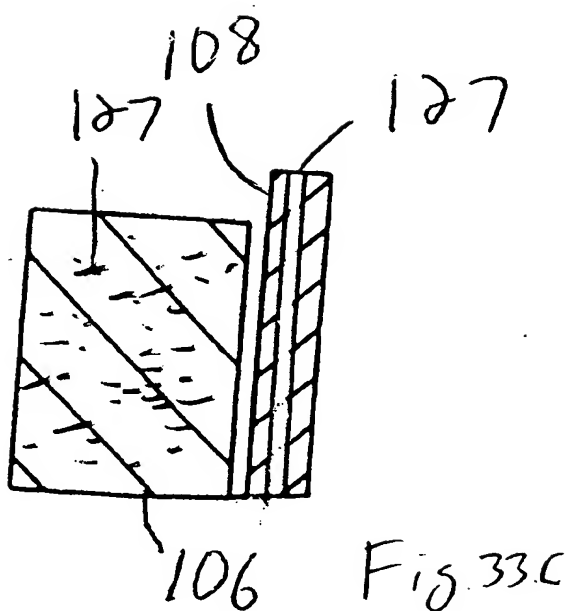


Fig. 33C